

S/089/62/012/004/002/014
B102/B104

Calculation and simulation ...

are fed into the second one which simulates thermal-neutron diffusion. For determining the minimum critical fuel mass, the function

$$\psi(x) = -1 + \frac{\eta}{\sqrt{4\pi\tau}} \int_{-1}^{+1} \psi(a) e^{-\frac{(x-a)^2}{4\tau}} da. \quad (11)$$

is used; in this case, the moderator density $n_{\tau=\tau_t} \sim n_{\tau=0} \sim \psi(x)$; X

$\psi = (T_0 - T)/T$, $k = \eta\psi/(\psi+1)$; T_0 is the life-time of thermal neutrons in the reflector, η is the mean number of secondary neutrons per thermal neutron absorbed by the fuel; $\sqrt{\tau}$ is the moderation length, τ_t the thermal neutron age; all the parameters of the dimension of a length are taken as dimensionless. Calculations of the critical fuel mass $\int \psi dx$ in age and two-group approximations are compared (Table 1). For thermal-neutron density smoothing by an additional absorber,

$$\frac{T}{T_0} = \frac{1}{1 + \frac{\Sigma_{ar}}{\Sigma_{as}} + \frac{\Sigma'(r)}{\Sigma_{as}}} = \frac{1}{1 + \psi + y(r)}, \quad (12)$$

Card 2/4

Calculation and simulation ...

S/089/62/012/C04/002/014
B102/B104

is used, where the sought function $y(\vec{r}) = \sum'(\vec{r})/\sum_{a_3}$ is proportional to the density of the additional absorber whose absorption cross section is $\sum'(\vec{r})$. $\frac{\sum_{a_3}^{\text{af}}}{\sum_{a_3}} = \psi$, the macroscopic absorption cross section ratio of fuel

and moderator. In two-group approximation $f(y) = \frac{2}{\eta} \left[y(\vec{r}) + \frac{\psi+1}{\psi} \right]$; the analytic form of $f(y)$ and the criticality conditions are calculated in age and two-group approximations for a plane, a cylindrical, and a spherical reactor. From a comparison of the results it may be seen that the age approximation is well usable, and that neutron density smoothing problems lead to heat-conduction-type equations solvable by static integrators. There are 5 figures, 2 tables, and 15 references: 7 Soviet and 8 non-Soviet. The four most recent references to English-language publications read as follows: G. Goertzel. J. Nucl. Energy, 2, No. 3, 1953, 1956; J. Wilkins. Nucl. Sci. Engng, 6, No. 3, 229, 1959; J. Ravets, J. Lamarsh. Nucl. Sci. Engng, 7, No. 6, 496, 1960; M. Duret, W. Henderson. Nucleonics, 16, No. 11, 168, 1958.

Card 3/4

KUBYSHTA, N.N.

Seedling planter with furrow plow. Sel'khozmashina no.12:22-23
D '53. (MLRA 6:12)
(Agricultural machinery)

KURYSHTA, N.U.

The SLN-1, SLN-2, and ZSLN-1 tree planting machines. Biul. tekhn.-
ekon. inform. no.8:67-69 '58. (MIRA 11:10)
(Tree planting)

KUBYSHTA, N.H., inzh.

Mounted tree-planting machine. Trakt. i sel'khozmash. no.11:35-36
N '59.
(MIRA 13:3)

1. Spetsial'noye konstruktorskoye byuro zavoda "Krasnyy Aksay".
(Planters (Agricultural machinery))

KUBYSHTA, N.N.

The OVG-1 gas-actuated sprayer for vineyards. Biul.tekh.-ekon.
inform. no.3:54-55 '61. (MIRA 14:3)
(Spraying and dusting equipment)

KUBZ, A.

"Automatization of Rolling Mills by Means of Rotation Regulators." p. 151 (Hutník,
Vol. 3, no. 7/8, Aug. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress,
Feb. 1954, Uncl.

KUC, A.

CA

Changes in plant cells during drying. D. Kukiernicki
and A. Kuc. Polska Akad. Umiejszcsci, Prace Kom.
Nauk. Farmakol. Dissertations, Pharm. I, 153-431
(1940).—Medicinal plants useful in the prep. of drug
are used almost exclusively in dried form. In studying the
effect of drying upon some of these plants, it was found
that the dried plants were composed almost entirely of
dead cells. Consequently, the physiologically active of
fresh ones, since the latter may be decompd. by enzymes
over which the cytoplasm has lost its control. The only
raw plant material whose medicinally active ingredients re-
main unchanged to a large extent during drying are seeds.
The methods of drying of individual medicinal plants will
be studied in greater detail, in order to det. the optimum
conditions for the preservation of the vitality of their
cells.
Edward A. Ackermann

KUCA

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431. Determination of the ethanol content in leaves of black berries. A. F. Kozl. *Act. Acad. Polon. Ser.*, 1949, 10.A. (iv), 7. 155-160. An ethanol value in the various national Pharmacopoeias shows wide differences in the ethanol content of berberine leaves and stems. High values are now found to be due to contamination with various solvents. A modification of the Polish method, viz., extraction of the initial material with ethanol, ether, chloroform, benzyl alcohol, and water, followed by distillation of the extract to remove volatile components, has given an ethanol content of 15.5-16.0% for black berries, and gives an ethanol content which accords with the value in the American, British, and Swiss Pharmacopoeias. H. R. Kornacki.

650.364 METALLURGICAL LITERATURE CLASSIFICATION

CA

Kuc, A.

*Charmocultural cosmetics
Perfumes 11*

A method for determination of alkaloids in the leaves of *Hypoxanthus sigeri*. A. Kuc (Z. Zakladu Farm. Stow-
wanej Akad. Med., Krakow, Poland). *Falisa Akad.
Umsiedlenska, Prace Kom. Nauk Farm., Dissertationes
Pharm., 3, 38-70(1931)(French summary).*—See C.A. 63,
4800a. L. J. Piotrowski

KUC, Marian

A contribution to studies of the bryoflora of the Vihorlat Mountains.
Biologia 15 no.12:918-120 '60. (EEAI 10:8)

1. Ustav botaniky Polskej akademie vied, Krakow.
(CZECHOSLOVAKIA--MOSES)

KUC, Stanislaw

The longwall mining system with hydraulic filling and simultaneous working of three layers. Wiadom gorn 11 no. 7, 8:239-246 Jl-Ag '60.

KUC, Stanislaw

Fires in thick coal deposits worked layer by layer with liquid
filling. Wiadom gorn 12 no.9:288-294 S '61.

KUC, Zdzislaw

A central medical center for miners under construction.
Wiadom gorn 10 no. 4:150-151 Ap '59.

KUC, Zdzislaw

Achievements of People's Poland during its 15 years of existence.
Wiadom gorn 10 no. 7/8:221-223 Jl-Ag '59.

RABSZTYN, Jerzy, doc. mgr.inz.; KUC, Zdzislaw

Resolution of the Presidium of the Main Administration of the Trade Union of Miners and the Presidium of the Main Administration of the Association of Mining Engineers and Technicians concerning further widening of collaboration and more participation of the Trade Union of Miners and the Association of Mining Engineers and Technicians in the realization of planned technical progress, increase of labor productivity, decrease of costs, and the perfection of qualifications of the working staffs in the Polish mining industry. Wladow. gorn. 14 no.9: 265-267 S'63

1. Wiceprezes Zarzadu Głównego Stowarzyszenia Inżynierów i Techników Górnictwa (for Rabstyn). 2. Sekretarz Zarzadu Głównego Związku Zawodowego Górników w Polsce (for Kuc).

KUC, Zdzislaw

Common cause. Przegl techn 84 no.51:10 22 D'63.

1. Sekretarz Zarzadu Głównego Związku Zawodowego Górników.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Inorganic Chemistry

Structure and decomposition of mercurous acetide
Jeanne Misko and Libor Kutz (Universita Tekn. Brno,
Brno, Czechoslovakia) Chem. Lett. 19, 1075-1078 (1958) — By the
Fourier analysis of ring-gang amx, interatomic distances in
the melt HgC_2 were estd.: C-C 1.19 \pm 0.02 Å; C-Hg
2.17 \pm 0.02 Å. Thermal decompr. of HgC_2 gives
"amorphous" carbon of graphite structure. It is suggested
that the explosiveness of HgC_2 is caused by a sudden lengthen-
ing of C=C bond, which gives a shock to the neighboring
undecompr. molts
E. Kruse

(1)

Category : CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the molecule D-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 779

Author : Maly, Jaromir, and Kuma, Libor

Title : Calculation of the Potential-Energy Constants of COCl_2 , COF_2 , and COFCI .

Orig Pub : Ceskosl. casop. fys., 1954, 4, No 6, 638-645

Abstract : The El'yachevich-Stepanov method (Vol'kenshteyn, M.V. Kolebaniya Molekul /Oscillations of Molecules/, I. Moscow, Gostekhizdat, 1949) is used to compute the oscillation frequencies of COCl_2 (I), COF_2 (II) and COFCI (III) from values of the potential-energy constants (K_{ij}). A C_{2v} symmetry was assumed for I and II and a C_s symmetry was assumed for III in the calculation of the kinematic coefficients.

Card : 1/1

"APPROVED FOR RELEASE: 03/13/2001

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CIA-RDP86-00513R000827020014-7"

KUCA, Libor; BOROVANSKY, Alois; SKKERA, Aleš

Glucochloralose. 3. Determination of β -glucochloralose in the presence of α -glucochloralose by spectrophotometry in the infra-red region. Česk. farm. 4 no. 8:412-414 Oct 55.

1. Z Ustavu pro chemii farmaceutickou Masarykovy university v Brne.

(HYPNOTICS AND SEDATIVES

α - & β -glucochloralose determ. by spectrophotometry
in infra-red region)

(SPECTROPHOTOMETRY

determ. of β -glucochloralose in presence of
 α -glucochloralose in infra-red region)

(INFRA-RED RAYS

spectrophotometric determ. of β -glucochloralose in
presence of α -glucochloralose)

Z/038/62/000/008/007/007

AUTHOR: Kuča, LiborTITLE: Pu_{IV}-extraction with
aliphatic ketonesPERIODICAL: Jaderna Energie, no. 8, 1962, 286

TEXT: The extraction capacity of some aliphatic ketones with direct and branched chain for Pu_{IV} was investigated. The extraction was carried out using following compounds: methyl-n-propylketone, methyl-n-butylketone, methyl-isobutylketone, methyl-tert, butylketone, methyl-n-amylketone, methyl-n-hexylketone, ethyl-n-butylketone, and di-n-propylketone, in solutions with starting concentrations 0,3 M - 8 M of HNO₃ in the aqueous phase. Factors influencing the extraction efficiency of ketones are of several types. The extraction efficiency of ketones of the same structural type decreases with the increasing length of the chain. The Pu_{IV}-extraction with branched chain ketones is worse than with isomeric ketones with direct chain.

Card 1/2

Z/038/62/000/008/007/007

Pu_{IV}-extraction with aliphatic ketones

Methyl-n-alkylketones are the most efficient extractants between isomeric compounds. The extraction efficiency of ketones is discussed from the point of view of steric and inductive influence of the side chain on the oxygen atom of carbonyl group. The mechanism of the Pu_{IV}-extraction with methyl-isobutylketone was investigated in more details. Pu_{IV} is extracted from 1,5 N HNO₃ into the organic phase mostly in the form of Pu(NO₃)₄. The ratio of acidocomplexes in the organic phase increases with increasing acidity. The organic phase contains only H₂Pu(NO₃)₆ in the extraction from 6 N HNO₃, and the corresponding aqueous phase contains partly dissociated HPu(NO₃)₅ and H₂Pu(NO₃)₆. The Report of the Inst. Nucl. Res./UJV No. 642. [Submitted to the journal Coll. Czech. Chem. Communications.]

Card 2/2

-KUCA, L.

Plutonium (IV)-extraction by aliphatic ketones from nitrate containing medium. Coll Cz chem 27 no.10:2372-2379 0 '62.

1. Institut fur Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Rez bei Prag.

KUCA, Libor

Application of the Taft linear relationship to the correlation
of extraction ability of neutral organic phosphorus compounds.
Jaderna energie 9 no.5:167-168 My '63.

1, Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez
u Prahy.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7"

KUCA, Libor

Cost of burnt-out nuclear fuel reprocessing. Jaderna energie
10 no. 3:88-89 Mr '64.

J. Nuclear Research Institute, Czechoslovak Academy of Sciences,
Rez.

KUCA, L.

Use of empirical relations for the correlation of the extraction capacity of neutral organic phosphorus compounds. Coll Cs Chem 29 no.2:325-335 F '64.

1. Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez near Prague.

CEPA, libor

Extraction of malic ions by organic agent mixtures. Chem
Listy 58 no. 5-6, 1977 JI Še.

1. Institute of Nuclear Research, Czechoslovak Academy of Sciences,
Rez near Prague.

KUCA, L.

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy
of Sciences, Rez near Prague

Prague, Collection of Czechoslovak Chemical Communications,
No 10, October 1966, pp 4064-4071

"Extraction of Pu(IV) with trihexylphosphinoxide and a
mixture of Di-n-butylphosphoric acid and trihexylphos-
phinoxide."

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 1, January 1967, pp 288-297

"Mixed complexes of di-n-butylphosphoric acid with
tributyl phosphate and trihexylphosphine oxide."

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communica-
tions, No 1, January 1967, pp 298-310

"Extraction of Pu(IV) with di-n-butylphosphoric acid
from nitrate and perchlorate solutions."

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communica-
tions, No 2, February 1967, pp 720-728

"Hydration of the organic phase in extraction of
uranium with organophosphorus reagents."

CZECHOSLOVAKIA

KUCA, I.

Institute of Nuclear Research, Czechoslovak Academy
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-
cations, No 2, February 1967, pp 729-746

Distribution of di-n-butylphosphoric acid between
carbon tetrachloride and nitrate or perchlorate solu-
tions of ionic strength 1 and 6."

KUCA, K.

Commitments of motorists of the Presov region. p. 133.
Reporting our activity from the "Gate of the Czech Land." p. 133.
"Svet Motoru", Praha, Vol. 9, no. 5, Mar. 1955.

SO: Monthly List of East European Accessions, (EAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

S/081/63/000/003/031/036
B144/B166

AUTHORS: Berger, Vladimír, Cejp, Josef, Kuča, Miloslav

TITLE: Weather resistance of Czechoslovakian plywood glues under tropical conditions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 604, abstract 3T161 (Dřevo, v. 16, no. 11, 1961, 355-356 [Czech; summaries in Russ. and Ger.])

TEXT: Results are given which were obtained in a 5-year test of plywood samples bonded with urea (UA) and phenol (FA) adhesives, carried out in Viet Nam (moist tropical climate). The samples were exposed both protected from the direct effect of sun and rain, and unprotected. In the first case, the UA plywood samples (~100% filled with wood flour) had come completely unglued by the end of the period; the UA samples without filler retained only ~30% of their original strength, without protection they had already come unglued after 3 - 12 months' exposition. FA plywoods after 5 years' exposition (protected) lost 8 - 20% of their original strength; without protection 70%. Such a reduction in strength Card 1/2

Weather resistance of

S/081/63/000/003/031/036
B144/B186

is due, however, mainly to the wood, and to a considerably lesser extent to the glue: not a single case of unglueing was observed in these samples. The conclusion is drawn that for countries with moist tropical climate the plywood should be bonded with FA; the export of UA plywoods into such countries cannot be recommended. [Abstracter's note: Complete translation.]

On ed 2/2

LACAN, M.; KUCAN, B.

A note on the synthesis of 2, 7-dibenzoyl-4,5-benztropone.
Croat chem acta 35 no.2:141-142 '63.

1. Laboratory of Organic Chemistry and Technology, Faculty
of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia.

5

MILETIC, B.; DENIC, M.; KUCAN, Z.; ZAJEC, Lj.

Effect of ionizing radiations on the metabolism of nucleic acids in
Escherichia coli. Voj.san.pregl. 18 no.2:143-147 F '61.

1. Institut "Ruder Boskovic" u Zagrebu, Radioloski odjel.

(ESCHERICHIA COLI radiation eff)
(NUCLEIC ACIDS metab)

KUCAN, Z.; MILETIC, B.; DRAKULIC, M.; ZAJEC, Lj.

Inhibition of protein biosynthesis, and its effect on the
biosynthesis of desoxyribonucleic acid after X-ray irradiation.
Bul sc Youg 7 no.1/2:13 F-Ap '62.

1. Institut "R. Boskovic," Zagreb.

*

KUCAN, Zeljko; MILETIC, Branimir; ZAJEC, Ljerka

Degradation of bacterial desoxyribonucleic acid by the irradiation
with x-rays. Vojnosanit. pregl. 18 no.10:847-850 O '61.

1. Institut "Ruđer Bošković" u Zagrebu, Radioloski odjel.

(DESOXYRIBONUCLEIC ACID chem) (RADIATION EFFECTS)
(BACTERIA chem)

KUGAČIĆ, Franjo

Are tuberculous mortality statistics presented in anti-tuberculosis dispensary annual reports really meaningful? Tuberkulozna
16 no.1:49-51 Ja-F '64.

1. Antituberkulozni dispanzer, Osijek (Sef: dr. Hermina Moret).

KUGAHI, Y.

Importance of the accounting technique in construction, p. 15, TEKNIKA,
(Ministria Industri-Miniera dhe Ndertim-Komunikacion) Tirane, Vol. 3,
No. 2, Mar./Apr. 1956

SOURCE: East European Accessions List, (EEAL) Library of Congress,
Vol. 5, No. 12, December 1956

KRACIK, B.; MILIGUI, Z.; BRAHEC, V.; VEJS, M.; MASTALKA, A.; KUCAROVA, T.

Dospay of Sm¹⁵⁵. Chekhosl fiz zhurnal 13 no.1:79-83 '63.

1. Ustav jaderneho výzkumu, Československa akademie ved, Res.
2. On leave from the United Arab Republic (for Miligui).

KUCEL, J.

"Artificial Insemination in the Control of disease in cattle."

Vet: Glasnik 4 : No. 1, pp. 1-14, 1950

HUCERA, A.

Technological plan for forge shops and press shops, p. 245. *MÍR JIRENSKA VÝROBA*. (Ministerstvo strojírenství) Praha. Vol. 4, no. 6, June 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

KUCERA, A.

Mechanization of hardening processes.

P. 22. (STROJIRENSKA VYROBA) (Praha, Czechoslovakia) Vol. 6, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

KUCERA, A., inz.

Main trends of further development of optics and fine mechanics. Jemna mech opt 9 no. 1:1 Ja '64.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000827020014-7"

KUCERA, A.

Difference of density of normal and basophilic erythrocytes. Cas.
lek.cesk. 90 no.3:76-79 19 Jan 51. (CIML 20%)

1. Of the Institute of Physiology (Head--Prof.Vladislav Kruta,M.D.)
of the Medical Faculty of Charles University Branch in Hradec Kra-
love.

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KUCKRA, Antonin, MUDr (Mariánské Lázně)

Indications for organization of ambulatory care. Acta chir
orthop Cs 21 no.2:57-58 Ap '54. (HEAL 3:8)
(OUTPATIENT SERVICE,
*in orthopedics)
(ORTHOPEDICS,
*outpatient serv.)

BATEK, F.; KUCERA, A.; KUCEROVA, V.; MINARIK, L.

Role of the spleen in interoceptive conditioned blood picture changes in rabbit. Cesk. fysiol. 7 no.5:429-430 Sept 58.

1. Fysiologicky ustav u Ustav organizace zdravotnictvi lek. fak. PU, Olomouc.

(BLOOD CELLS,

count, eff. of splenectomy on conditioned changes in rabbits
(Cx))

(REFLEX, CONDITIONED,

conditioned blood count changes in splenectomized rabbits(Cx))

(SPLENX, eff. of excis.

on conditioned blood count changes in rabbits (Cx))

BATEK, F.; KUCERA, A.; KUCHROVA, V.; MINARIK, L.

Effect of adrenalectomy on the course of interoceptive white and red blood picture changes in rabbits. Cesk. fysiol. 7 no.5:431-432 Sept 58.

1. Fysiologicky ustav a Ustav organizace zdravotnictvi lek. fak. PU, Olo-mouc.

(LEUKOCYTE COUNT,

eff. of adrenalectomy on interoceptive changes in rabbits (Cx))

(ERYTHROCYTES,

count, eff. of adrenalectomy on interoceptive changes in rabbits (Cx))

(ADRENALECTOMY, eff.

on interoceptive erythrocyte & leukocyte count in rabbits (Cx))

KUCERA, ALES, ed.

Navody ke cvicenim z prakticke fysiologie. Zpracovali Frantisek Batek
(et al. 1. vyd.)

Praha, Czechoslovakia. Statni pedagogicke nakl., 1959. 225p.

Monthly List of East European Accessions (EEA), LC, Vol. 9, no. 2.
Feb. 1960. Uncl.

KUCERA, A.; BATEK, F.; MINARIK, L.; KUCEROVA, V.

On the effect of pentamethonium on the course interoceptive changes
of white and red blood pictures in rabbits. Cesk. fysiol. 8 no.5:
418-419 8 '59

1. Fysiologicky ustav a Ustav organizace zdravotnictvi Lek. fak.
PU, Olomouc.

(METHONIUM COMPOUNDS pharmacol.)
(ERYTHROCYTE COUNT pharmacol.)
(LEUKOCYTE COUNT, pharmacol.)

KUCERA, A.; BATEK, F.; MINARIK, L.; KUCEROVA, V.

Effect of the pituitary on the dynamics of changes in white blood
picture. Cesk. fysiol. 8 no.5:419-420 S '59

1. Fysiologicky ustav a Ustav organizace zdravotnictvi Lek. fak.
PU, Olomouc.

(LEUKOCYTE COUNT)
(HYPOPHISECTOMY eff.)

KUCERA, Leo; LUZA, Jiri

The effect of histamine on the regeneration of the leukocytes
after leukopheresis. Stern, ved. prac. lek. fak. Karlov. Univ.
7 no.4:523-529 '64.

1. Fyziologicky ustanov Lekarske fakulty Palackeho University,
Olomouc (predkandidat doc. MUDr. A. Kucera).

CZECHOSLOVAKIA

KUCERA, A., STEIGLOVA, J., LUZA, J; Physiological Institute,
Medical Faculty, Palacky University (Fysiologicky Ustav Lek. Fak.
PU), Olomouc.

"Analysis of Inspiration Reflexes Caused by Mechanical Stimulation
in Pentothallic Apnaic Pause."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 71.

Abstract: Thiopentalum solubile is a hypnotic with a strong initial effect and is used in surgery and obstetrics when muscle relaxation is not required. An initial dose of 1.2 cc of a 5% solution per kg of body weight causes apnoea. During this state every mechanical excitation of the breast causes a breath intake and expiration. Intravenous administration of thiopenthal to a rabbit causes an expiration apneic pause. Imposed breathing persists even when subcutaneous application of procaine is made. The resection of nervus vagus does not stop the occurrence of imposed breathing in an apneic pause. The origin of this reflex action is discussed. 2 Western references. Submitted at the "16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

KUCERA, Alois

New cemented carbides in practice. Stroj vyr 11 no.2:76 F '63.

1. Zavod první pětiletky, n.p., Sumperk.

Category : CZECHOSLOVAKIA/Optics - X-rays

K-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2570

Author : Kucera, B.

Title : Use of Optics in New Methods of X-Ray Diagnosis

Orig Pub : Jemna mech. a opt., 1956, 1, No 1, 18-20

Abstract : Description of indirect skiagraphy methods and of the corresponding instruments.

Card : 1/1

Kucera, E.

Present trends in the production of artificial fertilizers and plant insecticides in
the USSR. P. 97.

Vol. 5, no. 3, Mar. 1955.
CHEMICKY PRUMYSL

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

BLEKTA, M.; HENDL, J.; KUCERA, E.; OJUNICOVA, J.

Role of nutrition in the prevention of pregnancy complications.
Cesk.gyn. 25[39] no.3:181-185 1960.

1. II.gyn.por.klin. KU v Praze, prednosta prof.dr. Sc. J. Lukas.
(PREGNANCY nutrition & diets)

BLEKTA, M.; HENDL, J.; KUCERA, M.; GJURICOVA, Jirina

Preventive effect of nutrition on late gestosis. Cesk.gyn. 25
[39] no.3:198-202 1960.

1. II.gyn.por.klin. KU v Praze, predn.prof. Dr.Sc. Josef Lukas.
(PREGNANCY TOXEMIAS nutrition & diets.)

LUKASH, I., [Lukas, J.], d-r, prof.; KUCERA, E. [Kucera, E.];
DIVISH, I. [Divis, J.]

Treatment of inflammatory follicular tumors of the uterine
adnexae by means of puncture. Akush. i gin. no.1:77-82 '62.

(MIRA 15:11)

1. Iz 2-y akushersko-ginekologicheskoy kliniki (zav. - prof.
d-r I.Lukash) pri Universitete v Prague.
(UTERUS—TUMORS)

TACHEZY, R., doc.; KUCERA, E.

Basal temperature in the climacteric. Cesk. gyn. 27[41] no.4:269-
271 My '62.

1. Psychiat. lec. v Bohnicich, reditel MUDr. K. Dobisek II.
por gyn. klin. KU v Praze, prednosta prof. MUDr. J. Lukas, DrSc.
(BODY TEMPERATURE physiol) (CLIMACTERIC physiol)

CZECHOSLOVAKIA

GRUBER, O; RALEK, M; KUCERA, E

Institute of Physic~~o~~Chemistry, Czechoslovak Academy
of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 7, July 1966, pp 2629-2638

"Calculation of the mass transfer coefficients by means
of a more exact theory of gas-solid chromatography. Part 2:
Variance and asymmetry of the chromatographic curves in the
system carbon dioxide-activated charcoal."

CZECHOSLOVAKIA

KUCERA, E.; NIKOLAJENKO, V.

Institute for Physical Chemistry, Czechoslovakian Academy of Sciences (Institut für physikalische Chemie, Tschechoslovakische Akademie der Wissenschaften), Prague (for both)

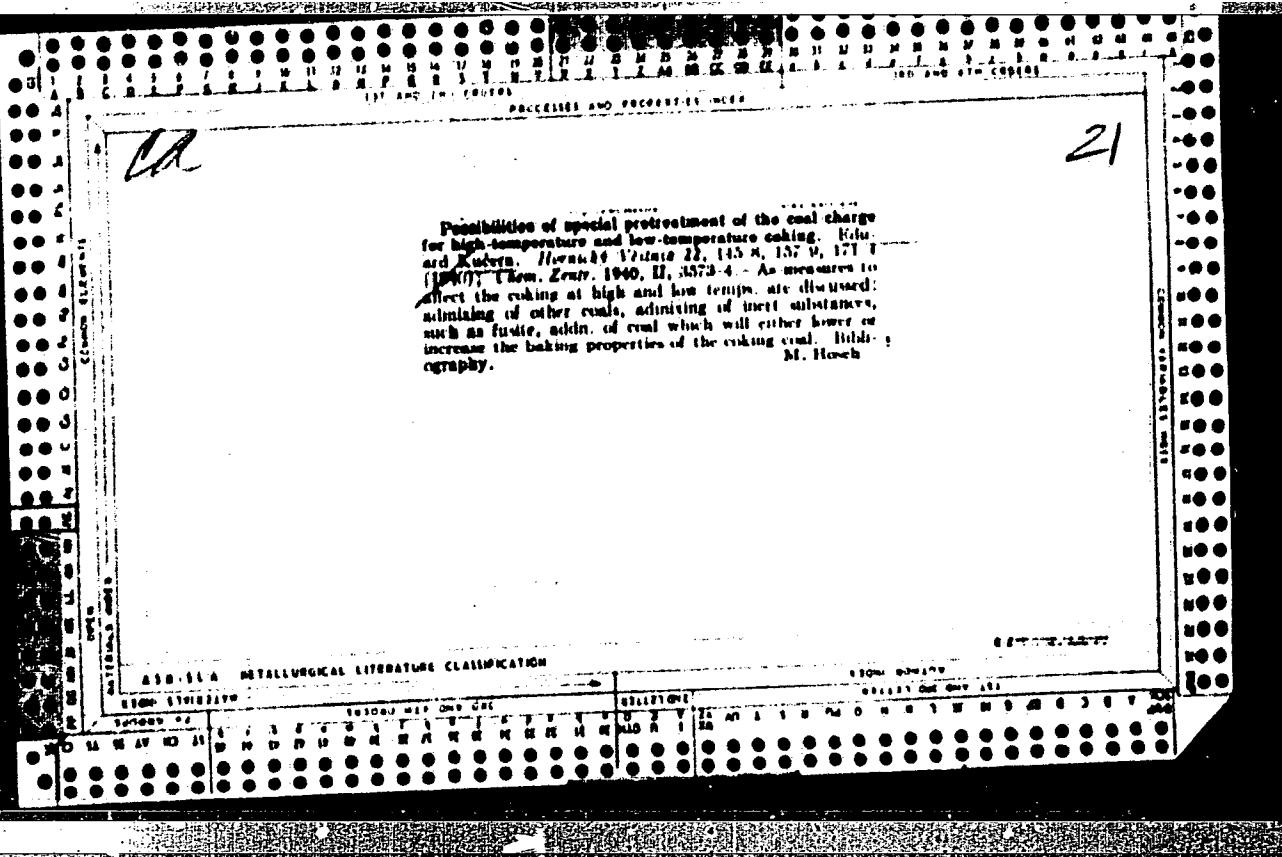
Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb 1966, pp 399-405

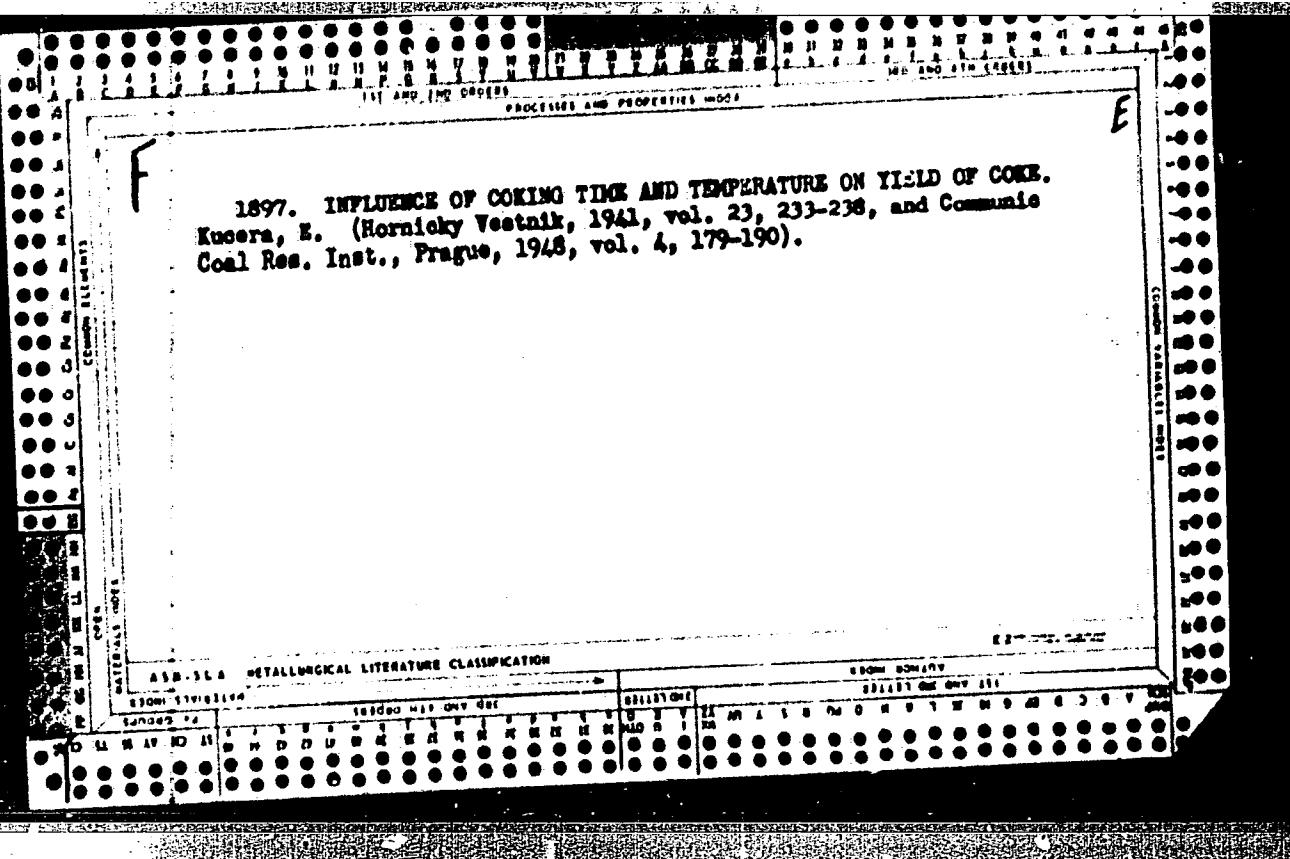
"Research on the products of the decomposition of mixed oxalates of nickel and zink in a vacuum."

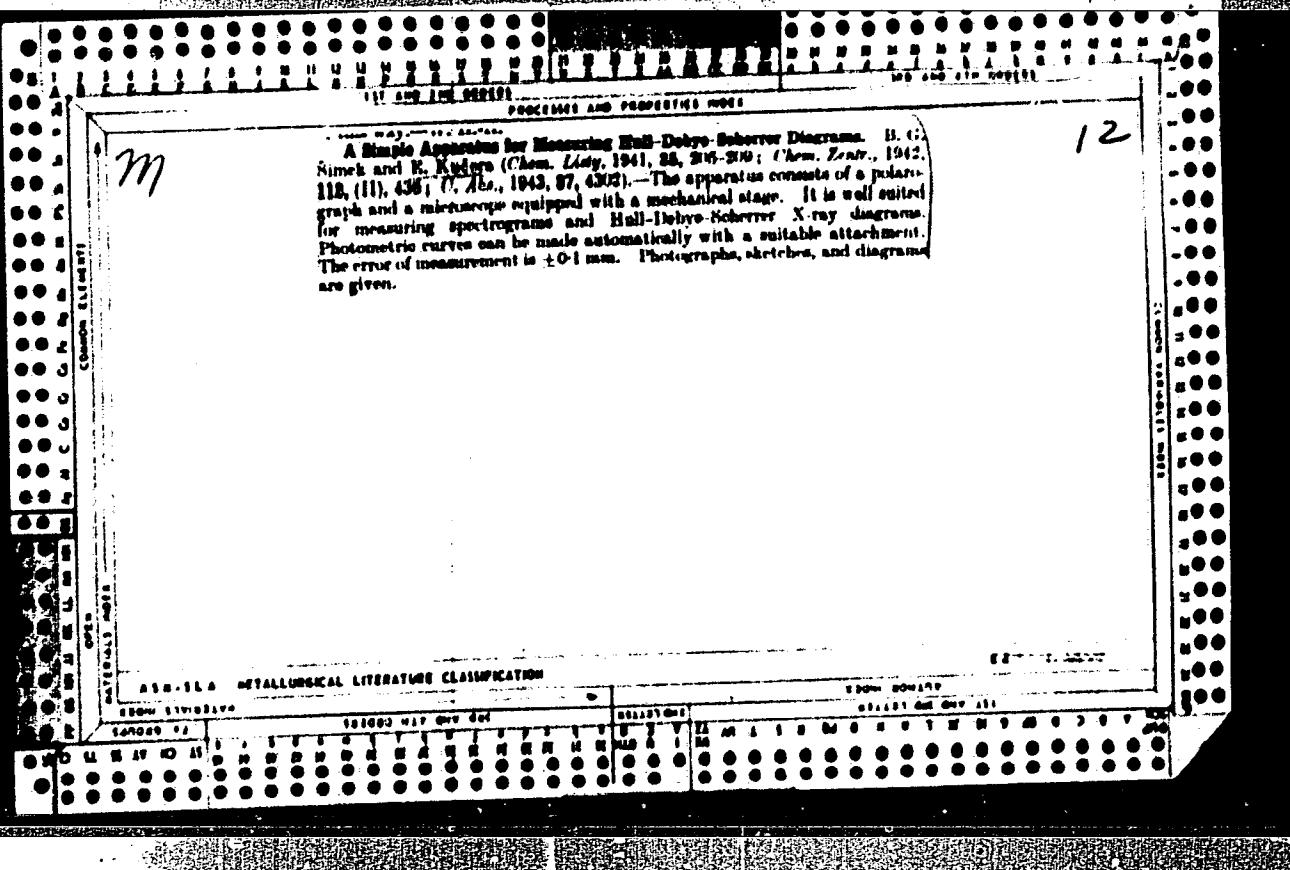
KU'KA, Esmond

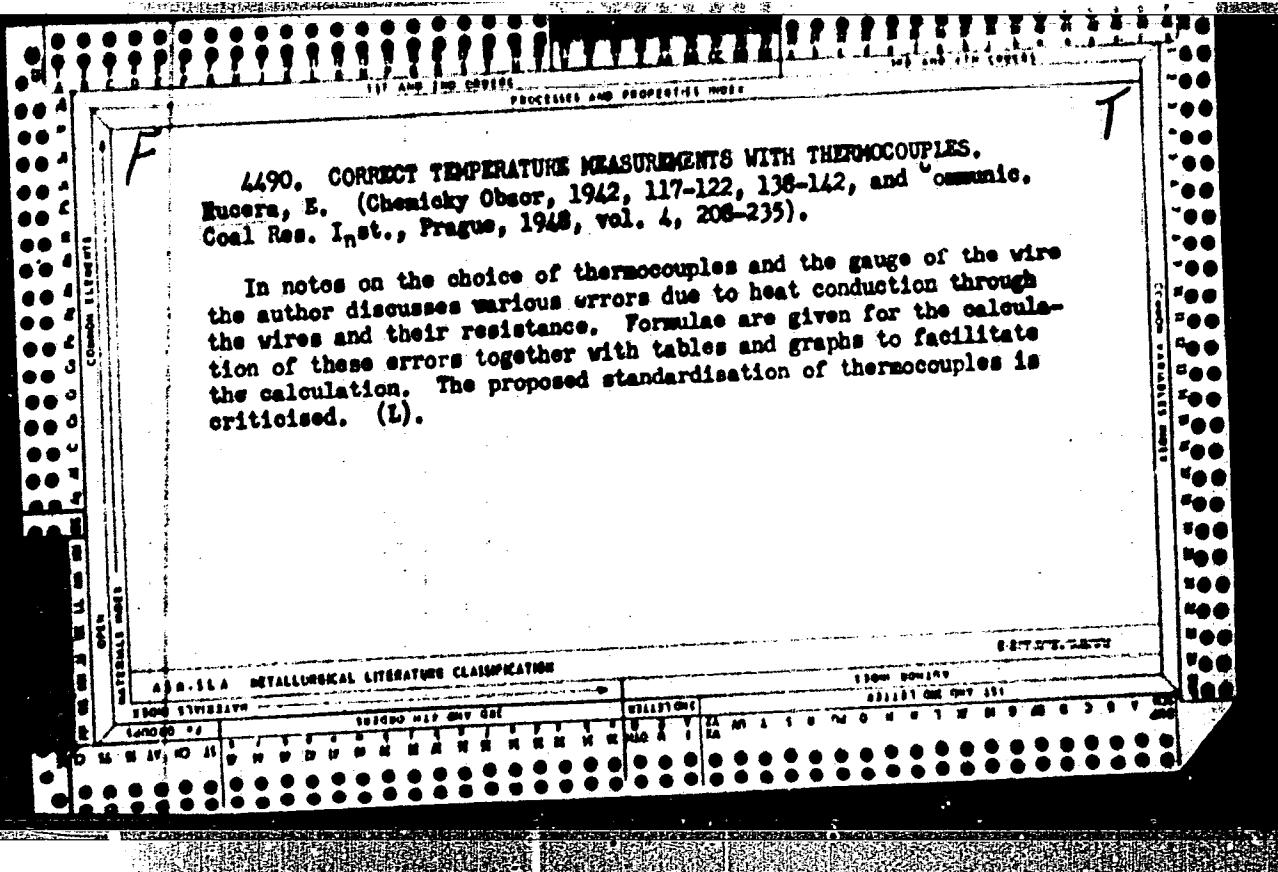
Testimony. From page 14 no. 9, 183 . 164.

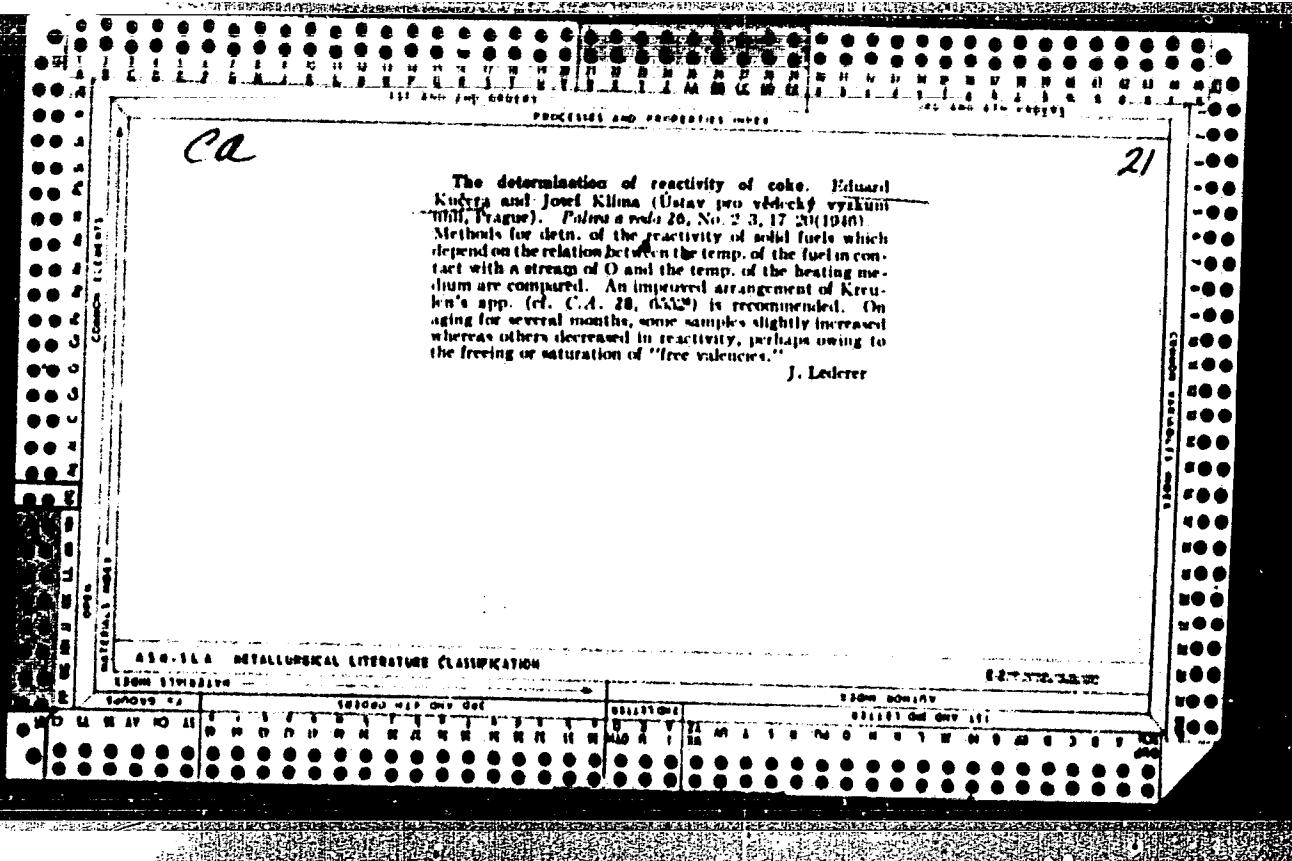
I. Spokana National Interpreter, Heratovino.





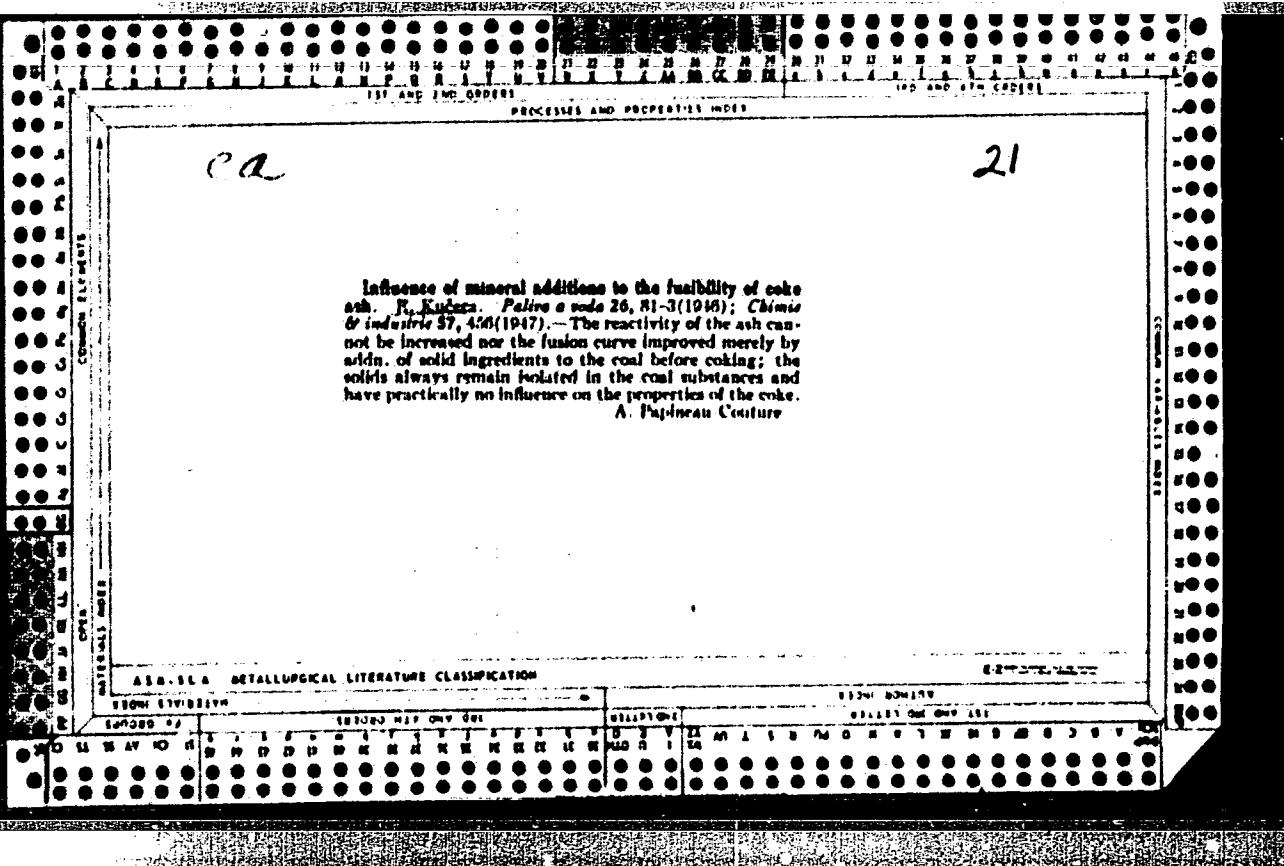


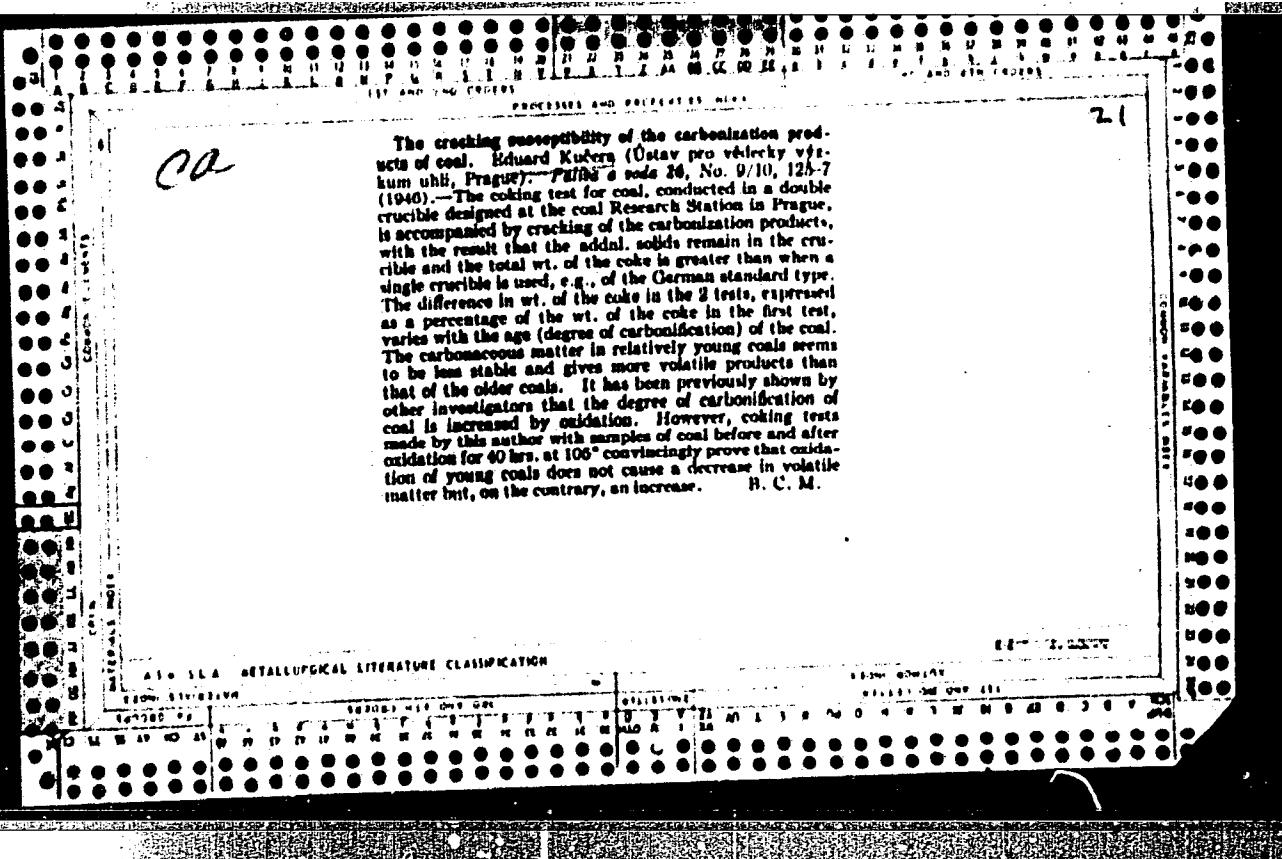




4338. EFFECT OF INORGANIC ADDITIVE ON REACTIVITY OF COKE. Simek, B. B., Kugera, E. and Klina, J. (Paliva a Voda, 1946, 26, 49-55; Chem. Abstr., 1947, 41, 5704).

Coke samples were prepared in a laboratory retort by using various coking conditions, coal blends, and mineral additives, e.g., Fe_2O_3 , CaO , a blend of $Fe(OH)_3$ and $Ca(OH)_2$, magnetite, MgO , Na_2CO_3 , Cu chalcocite, magnesite. The reactivity of the coke was measured by the initial temperature of reaction with O₂ observed in a modified Kroulen apparatus. More-active coke, was produced by lower coking temperature and more rapid coking; less-active coke, by using coal blends of higher bulk density and by longer maturing time. Mineral additives vary in their effects on the reactivity, and mixtures of mineral substances do not follow the mixing law. Very coarse grain and very fine grain mineral additives decrease the reactivity; coarser grain of the mineral additive increases the initial temperature, on the other hand. Low-ash coal yields coke of higher reactivity.





140%. COKE RESEARCH IN CZECHOSLOVAKIA. Kucera, E. (Paliva a Voda, 1946; Gas Vld, 28 Sept. 1946, 125, 349). b

Using a slight modification of the Kreulen method the author investigated the effect on the reactivity of coke of mineral additions, time and temperature of coking, and coke storage at room temperature. Carbonisation at higher temperatures gave a less reactive coke, and the most satisfactory mixture to add was 3% wood charcoal plus 1% of a 1:1 mixture of slaked lime and iron ore. The addition of substances to the coal has a deleterious effect on clinkering.

KUČERA, E.

THE CHOICE OF WIRES FOR THERMOCOUPLES. E. Kučera. Zpravy Ustavu
Vedecké Vyšské Uhli (Prague) 1948, 235-6 (in English). -The following
lengths and diams., resp., are suitable for thermocouples of various
compos.: Ag vs. constantan or Cu vs. constantan 0.5 m., 1.0-2.0 mm.;
longer, 3 mm.; Ni-Cr vs. constantan or Fe vs. constantan less than 0.5
m., 1.0-1.5 mm.; Ni vs. Ni-Cr up to 0.2 m., 2 mm.; Pt vs. Pt-Rh,
0.5-0.6 mm.

J.L.

immediate source clapping

Dp.

4493. NOTE ON QUESTION OF MIXING IN CALORIMETERS. Kucera, E.
(Commun. Coal Res. Inst., Prague, 1948, vol. 4, 257-260).

The heat produced by friction by a stirrer illustrated, is calculated from the exactly measured power consumption, and amounts to about 76 cal. per hour. The overall error amounts in the most favourable case to about 0.6 cal. and does not therefore modify practical results. If absolutely constant revolutions are required it is recommended to use a motor with a short-circuited armature. (L.)

METALLURGICAL LITERATURE CLASSIFICATION

1998 RELEASE UNDER E.O. 14176

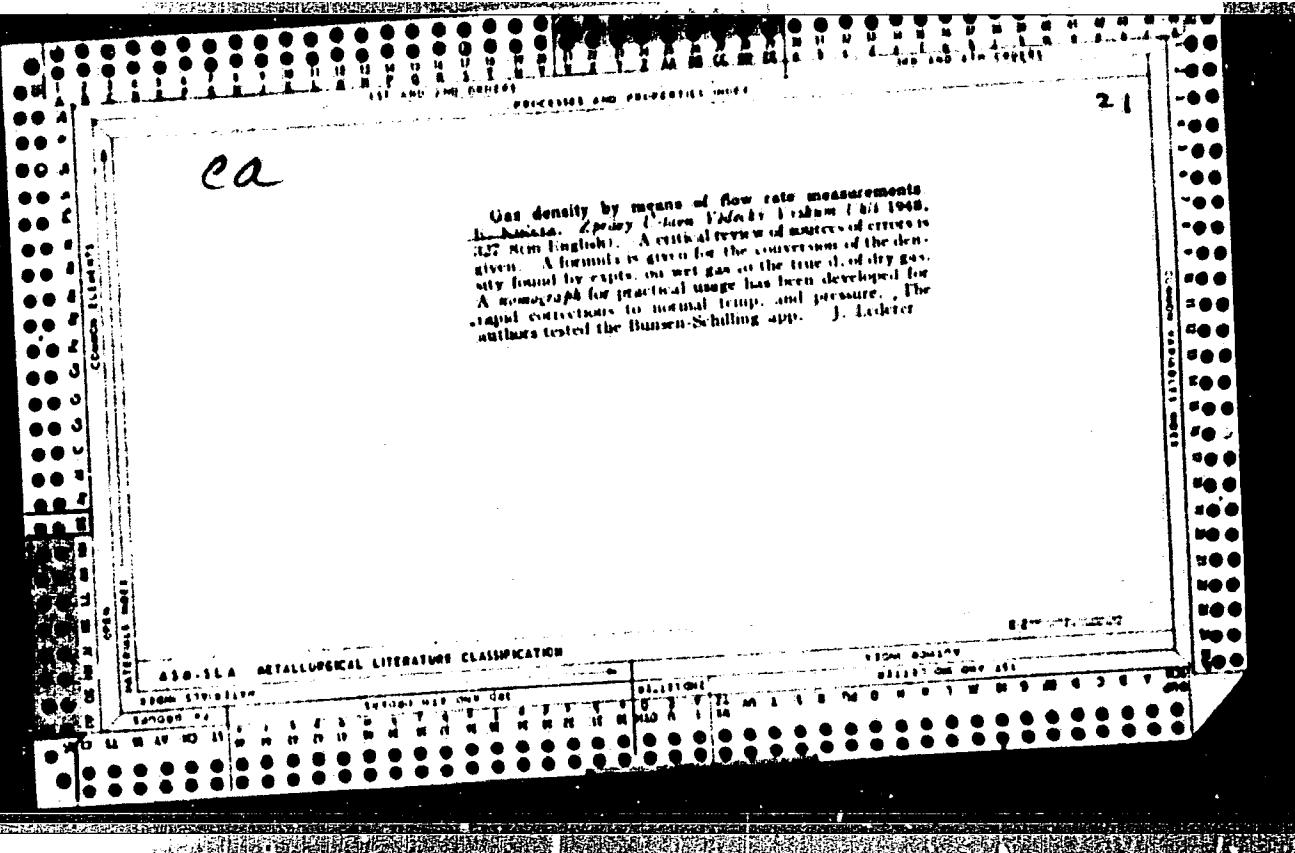
APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000827020014-7"

KUCERA, E.

Note on mixing in combustion calorimetry. E. Kudera
Zprávy Ustavu Vědecky Výzkumného Ústředí (Prague) 1948, 200 (in
English).—Several sources of error are enumerated, such
as heat produced by friction and variation in r.p.m. due to
line variation or to motor construction. A drawing is
given of the propeller used, with calcns. The heat pro-
duced by friction is corrected in a blank expt. Line varia-
tions are eliminated by use of a motor with short-circuited
armature.
Lederer

H. K. W. / 4



CA
1931

Course of volatile products in the coke oven. Břetislav
G. Šimek, Eduard Kudera, and Bohumír Tejčík (Coal
Minerals Research Inst., Prague). *Patent 31, 4-13(1951).*—
Coking tests were carried out in an app. comprising a mobile
oven effecting the formation and the progress of the fusion
zone, in order to imitate the coking process and to follow
the course of volatile products in the coke oven. Seven
samples of Czechoslovakian coals were investigated ranging
from low to high volatility bituminous coals. It was found
that more than 75% of volatile products move toward the
hot oven walls, although in the case of high-volatile coal
nearly 47% of the gas produced passed towards the cooler
center of the charge. The effect of variables such as coking
temp., bulk d. of the charge, and the temp. of the gas-
collecting space were studied. James L. Jeil

KUCERA, E.

"Stanislav Landa and Rudolf Riedl's Tabulky and diagramy v oboru paliv. Dil I (Tables and Diagrams on Fuels. Vol. 1); A book review."

p..318 (Chemicky Prumysl) Vol. 7, no. 6, June 1957
Prague, Czechoslovakia

SC: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no.4,
April 1958

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and
Their Application. Electrochemical Manufacturing
Electrodeposition. Chemical Sources of Electric
Current.

H-12

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43965.

Author : Kucera Eduard.

Inst :

Title : Prospects of Providing a Supply of Direct Current
for the Large Electrolysis Installations.

Orig Pub: Chem. prumysl, 1957, 7, No 10, 540-543.

Abstract: A review of the sources of direct current and of
their economic characteristics from the standpoint
of suitability for supplying current to electro-
lysers.

Card : 1/1

13

KUCERA, E.; [REDACTED]

TECHNOLOGY

Periodical CHEMICKY PRUMYSL. Vol. 8, no. 2, Feb. 1958.

KUCERA, E.; PATEK, K. The chemical industry ten years after the Victorious February.
p. 57.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

KUCERA, E.

TECHNOLOGY

Periodical CHEMICKY PRUMY. L. Vol. 8, no. 2, Feb. 1958.

KUCERA, E. A national conference on the planning and building of new chemical plants.
p. 87.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

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TECHNOLOGY

Periodical CHEMICKY PRUMYSL. Vol. 8, no. 2, Feb. 1959.

KUCERA, E. Tabulky a diagramy z oboru paliv; dil II (Tables and Diagrams on Fuels.
Pt. 2); a book review. p. 94.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

KUCERA

Physicochemical and mechanical properties of photoelastic polymeric materials. V. Kocian and E. Kucera (Ust. theor., a aplik. mechanik, CSAV, Prague). Chem. pramysl v, 331-4 (1967). The time dependence was studied of the const. of optical sensitivity (K) of poly(methyl methacrylate) (I), and poly(benzyl methacrylate) (II) at const. stress (σ), and simultaneously the deformations (ϵ) were estd., all expts. being carried out at 22°. For I (II) the value of K is plotted as a function of log(time) for $\sigma = 97.2-383.3$ kg./sq. cm. (35.2-146.7). The relative change of K in % (ϕ) may be expressed as $\phi = k(\ln t) - g$ (k and g being functions of σ), the values of k and g being calcd. for I and II in the studied range of σ . The quality (D) of I (II) is defined as $D_{\text{rel}} = (E_f/K_f) \times 10^{-4}$ (cm.⁻¹), where $E_f = \sigma/\epsilon$; the change of D with time is plotted for various σ , the value of D for I (II) being found 0.1 (3.0-1.0). X-ray diagrams of II in the charged and uncharged states showed amorphous structures.

J. Bebecka

4
462c (j)
2 J. J. (HB)

KUCERA, E.
NIKOLAJENKO, V.

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Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10,
Oct 62, pp 2326-2335.

"Study of the Size of Particles of Metallic Nickel and Magnesium Oxide in Mixed Catalysts of Ni-MgO"

Co-authors:

RALEK, M. same as above

KUCERA, E. " " "

DAMES, V. " " "

BOSACEK, V.; POLAK, R.; KUCERA, E.; DANES, V.

Surface and structural properties of aluminum oxide after its treatment by halogens and aluminumtetrafluoborate. Coll Cs Chem 27 no.11:2575-2585 N '62.

1. Institut fur physikalische Chemie, Tschechoslovakische Akademie der Wissenschaften, Prag.

GRUBNER, O.; KUCERA, E.

Countercurrent gas-liquid chromatography. Coll Cz Chem 29 no.3:
722-729 Mr '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of
Sciences, Prague.

KUCEHA, E.; CROBNER, O.

Contribution to the theory of non-ideal separation processes
using a one-dimensional model of separation column. Coll Cz
chem 29 no.8:1782-1789 Ag '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of
Sciences, Prague.

KUCERA, Evzen

Epoxy resins for space photoelastometry. Chem. prum 14, no. 9:483-485
S '64.

1. Institute of Theoretical and Applied Mechanics, Czechoslovak
Academy of Sciences, Prague.

KUCERA, F.

Water supply and sewerage in Slovakia.

P. 202, (Voda) Vol. 36, no. 8, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EAAI) Vol. 6, No. 11 November 1957

KUCERA, F.

CZECHOSLOVAKIA / Farm Animals, Hogs

Q-4

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7189

Author : Frant Kucera.

Inst : Not given

Title : Hog Breeding in Great Britain.

Orig Pub: Nas chov. 1957, No 12, 335-336

Abstract: No abstract.

Card 1/1

22

KUCERA, Evzen

Hardening epoxy compounds for space photoelastometry. Chem
prum 15 no.1:35 Ja '65.

1. Institute of Building of the Czech Higher School of
Technology, Prague.

OSOLSOBE, J., dr., inz.; HOMOLA, F., inz.; KUCERA, F., inz.; PAVLICEK, Z., inz.; KUBINEC, R., inz.; CAHELKA, J., akademik; SIMURDA, L. inz.; JUZA, J., dr., inz.; KRAL, V., inz.; POSPISIL, J., inz.; DOLEZAL, R., prof., dr., inz.; ZEMAN, Vl., inz.; LIMPOUCH, B. inz.; SVAB, V., dr., inz.; LASKA, L., inz.; JAHODAR, V., inz.; KOHN, F., inz.

Development of power installations over a long period of time; summary of reports made at the 7th Conference of Power engineers in Bratislava, September 6-8, 1960. Energetika Cz 11 no.3: Suppl: Energetika 11 no.3:L-23 '61.

1. Chlen korespondent Ceskoslovenske akademie ved (for Osolsobe).

KUCERA, F.

"Contribution to Planning and Establishing Norms for Losses of Electricity",
P. 338, (ENERGETIKA, Vol. 4, No. 8, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Unclassified.